Datastat Research
Building Capacity in Training and Research

DATASTAT TRAINING IN

OFFICIAL COURSE PROSPECTUS

Center for Advanced Research & Professional Development

Nairobi Training Center • Global Virtual Academy • Corporate On-Site

DEMOGRAPHY AND POPULATION STUDIES

Small Area Estimation (SAE) Training Course

Comprehensive Course Syllabus, Practical Modules & Upcoming Schedules

PROGRAM SPECIFICATIONS & HIGHLIGHTS

DURATION
10 Days Practical Hands-on

DELIVERY MODES
In-Person Class & Live Virtual

CERTIFICATION
Accredited Certificate of Completion

INTAKES / DATES
Multiple Cohort Schedules Included

PREPARED FOR:

Valued Participant

Email: training@datastatresearch.org | Issued: November 24, 2026

Academic & Professional Training Year: 2026

DATASTAT TRAINING INSTITUTE

P.O. Box 102802-00101, Nairobi, Kenya

Training Centers: Nairobi • Mombasa • Kigali • Dubai • Live Virtual Academy

Tel: +254 724 527 104 | +254 734 969 612

Email: training@datastatresearch.org

www.datastatresearch.org

Small Area Estimation (SAE) Training Course

Demography and Population Studies • 10 Days Intensive • Accredited Certification

Course Overview

Small Area Estimation (SAE) Training Course integrates modern statistical techniques, including hierarchical modeling, Bayesian approaches, and machine learning algorithms, to equip participants with cutting-edge skills in small area estimation.

Key Skills & Software Tools Covered

MS Word • R • SAS • and STATA

Upcoming Training Schedules

Confirmed cohort intakes and venues. Both physical in-person classroom and live virtual online seats are available.

TRAINING DATES	LOCATION / VENUE	FORMAT / DURATION	INVESTMENT (FEE)
7 Dec 2026 – 18 Dec 2026	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
7 Dec 2026 – 18 Dec 2026	Kigali	Classroom / 10d	**$6,000 USD / KES 180,000**
7 Dec 2026 – 18 Dec 2026	Dubai	Classroom / 10d	**$10,000 USD / KES 180,000**
7 Dec 2026 – 18 Dec 2026	Cape Town	Classroom / 10d	**$9,000 USD / KES 180,000**
7 Dec 2026 – 18 Dec 2026	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 180,000**
7 Dec 2026 – 18 Dec 2026	Singapore	Classroom / 10d	**$10,000 USD / KES 180,000**
7 Dec 2026 – 18 Dec 2026	Istanbul	Classroom / 10d	**$10,000 USD / KES 180,000**
7 Dec 2026 – 18 Dec 2026	Bangkok	Classroom / 10d	**$10,000 USD / KES 180,000**
7 Dec 2026 – 18 Dec 2026	Accra	Classroom / 10d	**$8,000 USD / KES 180,000**
4 Jan 2027 – 15 Jan 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**

18 Jan 2027 – 29 Jan 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**

15 Mar 2027 – 26 Mar 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**

26 Apr 2027 – 7 May 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**

21 Jun 2027 – 2 Jul 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
19 Jul 2027 – 30 Jul 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
19 Jul 2027 – 30 Jul 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
19 Jul 2027 – 30 Jul 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
19 Jul 2027 – 30 Jul 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
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19 Jul 2027 – 30 Jul 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
19 Jul 2027 – 30 Jul 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
19 Jul 2027 – 30 Jul 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**

2 Aug 2027 – 13 Aug 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**

27 Sep 2027 – 8 Oct 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**

8 Nov 2027 – 19 Nov 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**

* Corporate discounts and customized cohort scheduling are available for teams of 3 or more participants.

Course Curriculum & Modules

Small Area Estimation (SAE) Training Course

Introduction

Small Area Estimation (SAE) is an advanced statistical methodology designed to provide reliable estimates for sub-populations or geographic areas where traditional survey data may be sparse or unavailable. With the growing demand for precise demographic, economic, and social insights, organizations are increasingly leveraging SAE to enhance decision-making, resource allocation, and policy formulation. Small Area Estimation (SAE) Training Course integrates modern statistical techniques, including hierarchical modeling, Bayesian approaches, and machine learning algorithms, to equip participants with cutting-edge skills in small area estimation. Participants will gain hands-on experience in applying these methods using industry-standard software such as R, Python, and SAS.

This comprehensive course targets researchers, statisticians, data analysts, and policymakers who aim to generate actionable insights from limited datasets. Emphasis is placed on practical applications, case studies, and advanced modeling strategies that reflect real-world scenarios in population studies, survey research, and market analysis. By mastering SAE techniques, attendees will enhance their analytical capabilities, improve reporting accuracy, and contribute to organizational efficiency and strategic planning. The course also highlights emerging trends such as big data integration, predictive analytics, and AI-driven demographic modeling, ensuring participants remain at the forefront of statistical innovation.

Course Objectives

By the end of this course, participants will be able to:

1. Understand the theoretical foundations and principles of Small Area Estimation.
2. Apply direct and indirect estimation methods for sub-population analysis.

3. Develop hierarchical and Bayesian models for small area predictions.
4. Integrate survey and administrative data for improved estimation accuracy.
5. Utilize R, Python, and SAS for SAE applications and simulations.
6. Implement model-based and design-based approaches in real-world scenarios.
7. Evaluate estimator performance through mean squared error and bias analysis.
8. Apply spatial SAE techniques for geographic and demographic studies.
9. Conduct benchmarking and calibration for policy-relevant indicators.
10. Incorporate machine learning techniques to enhance SAE predictions.
11. Analyze uncertainty and variability in small area estimates.
12. Design and interpret case studies for targeted interventions.
13. Translate SAE findings into actionable insights for organizational decision-making.

Organizational Benefits

· Enhanced accuracy in sub-population data reporting.
· Improved resource allocation based on precise estimates.
· Strengthened policy planning with targeted insights.
· Optimized survey design and reduced data collection costs.
· Integration of administrative and survey data for richer analysis.
· Increased capacity for data-driven decision-making.
· Improved monitoring and evaluation of programs.
· Support for demographic forecasting and trend analysis.
· Adoption of modern statistical software and AI tools.
· Competitive advantage through advanced analytics capabilities.

Target Audiences

1. Government statisticians and survey professionals
2. Policy analysts and public administrators
3. Academic researchers in demography and social sciences
4. Data scientists and machine learning specialists
5. Non-governmental organization (NGO) researchers
6. Market analysts and business intelligence professionals
7. Healthcare analysts and epidemiologists
8. Consultants in social and economic research

Course Duration: 10 days

Course Modules

Module 1: Introduction to Small Area Estimation

· Overview of SAE concepts and applications
· Comparison of direct vs. indirect estimation methods
· Importance of SAE in policy and market research
· Key statistical assumptions in SAE models
· Case study: Small area poverty estimation in developing regions
· Hands-on exercises using R

Module 2: Design-Based Methods in SAE

· Principles of design-based estimation
· Direct estimators and weighted survey data
· Variance estimation techniques
· Sample size considerations for small areas
· Case study: Local education performance indicators
· Practical implementation in SAS

Module 3: Model-Based Approaches

· Introduction to model-based SAE
· Linear mixed models for small area data
· Empirical Best Linear Unbiased Prediction (EBLUP)
· Model diagnostics and evaluation
· Case study: Household income estimation
· Exercises with Python statistical libraries

Module 4: Hierarchical and Bayesian Modeling

· Fundamentals of hierarchical models
· Bayesian estimation techniques
· Prior selection and posterior computation
· MCMC methods for SAE
· Case study: Disease prevalence mapping
· Hands-on Bayesian modeling in R

Module 5: Data Integration and Calibration

· Combining survey and administrative data
· Calibration methods for unbiased estimation
· Benchmarking small area estimates
· Addressing missing data challenges
· Case study: Population density estimation using census and survey data
· Practical exercises in R and SAS

Module 6: Spatial SAE Techniques

· Introduction to spatial statistics in SAE
· Geographic data visualization
· Spatial autocorrelation and smoothing
· Geostatistical modeling for small areas
· Case study: Localized unemployment estimation
· Hands-on spatial modeling exercises

Module 7: Evaluation of SAE Estimators

· Mean squared error and bias analysis
· Cross-validation techniques
· Sensitivity analysis
· Model comparison metrics
· Case study: Child mortality estimation
· Exercises on performance evaluation in Python

Module 8: Machine Learning in SAE

· Integrating machine learning models with SAE
· Regression trees and ensemble methods
· Feature selection for small area predictions
· Predictive performance assessment
· Case study: Retail sales forecasting for regional stores
· Hands-on ML-based SAE modeling

Module 9: Communication and Reporting

· Translating estimates into actionable insights
· Visualizing small area results
· Preparing reports for stakeholders
· Effective storytelling with data
· Case study: Policy recommendation based on SAE results

· Group exercises on report generation

Module 10: Applications in Health & Epidemiology

· Estimating disease prevalence in small populations
· Spatial and temporal modeling for health outcomes
· Data integration from hospitals and surveys
· Uncertainty quantification in public health estimates
· Case study: COVID-19 infection rate mapping
· Practical exercises using R and Python

Module 11: Applications in Economics & Market Research

· Local economic indicator estimation
· Consumer behavior analysis at regional levels
· Survey design for business analytics
· Benchmarking and forecasting economic variables
· Case study: Regional GDP estimation
· Hands-on exercises with real market datasets

Module 12: Advanced Computational Methods

· Monte Carlo simulations for SAE
· Bootstrap and resampling techniques
· Handling big data for small areas
· Automation of SAE workflows
· Case study: Employment trends analysis
· Practical implementation exercises

Module 13: Policy and Decision Support

· Using SAE for evidence-based policymaking
· Targeted intervention planning
· Cost-benefit analysis with small area data
· Risk assessment and mitigation strategies
· Case study: Education resource allocation
· Group discussion and scenario planning

Module 14: International Applications of SAE

· Global best practices in SAE
· Cross-country comparisons and benchmarking
· International survey integration
· Policy implications of global SAE estimates
· Case study: International poverty and health indicators
· Exercises on global datasets

Module 15: Capstone Project and Case Study Integration

· Comprehensive SAE project covering multiple modules
· Model selection and estimation
· Data integration and visualization
· Uncertainty analysis and reporting
· Final presentation of case study results
· Peer and instructor feedback

Training Methodology

· Interactive lectures with real-world examples
· Hands-on exercises using R, Python, and SAS
· Case studies and applied projects for practical understanding

· Group discussions to enhance analytical thinking

· Continuous evaluation and feedback from instructors

· Capstone project to integrate all learned concepts

Register as a group from 3 participants for a Discount

Send us an email: info@datastatresearch.org or call +254724527104

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to DATASTAT CONSULTANCY LTD account, as indicated in the invoice so as to enable us prepare better for you.

Certification & Learning Methodology

- Hands-on practical delivery with real-world datasets, case studies, and lab exercises.
- Post-training mentorship, access to class resources, and customized follow-up support.
- Participants who successfully complete the course receive an accredited Datastat Certificate of Completion.

How to Enroll & Reserve Your Seat

1. Online Registration: Visit https://datastatresearch.org/courses/small-area-estimation-sae-training-course to register online.
2. Email Booking: Send participant details to training@datastatresearch.org for official invoice & reservation.
3. Support & Assistance: Inquire via phone +254 724 527 104 | +254 734 969 612.